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10/555,263	11/01/2005	Stein Kuiper	NL 030549	9310	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/555,263 KUIPER ET AL. Office Action Summary Examiner Art Unit JOSEPH MARTINEZ 2873 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 17 December 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-13 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on <u>01 November 2005</u> is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PT of the Community of the Commun	O-948)	4) Interview Summary (PTO-413) Paper No(s)Mail Date. 5) Neite of Informal Patert Application 6) Other:
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DETAILED ACTION

Response to Arguments

Applicant's arguments filed 12-17-08 have been fully considered but they are not persuasive.

Applicant's argument on p. 7, wherein the applicant argues no motivation to combine the prior art, have been fully considered, but are not persuasive. The Office recognizes that references cannot be arbitrarily combined and that there must be some reason why one skilled in the art would be motivated to make the proposed combination of primary and secondary references. However, there is no requirement that a motivation to make the modification be expressly articulated. The test for combining references is what the combination of disclosures taken as a whole would suggest to one of ordinary skill in the art. References are evaluated by what they suggest to one of ordinary skill in the art, rather than by their specific disclosures. In this case, Shenderov (6565727) teaches manipulation of small isolated volumes of fluids based on the phenomenon of electrowetting.

Re applicant's arguments on p. 8, wherein the applicant argues that the prior art does not disclose a zero dipole moment and furthermore argues undue experimentation, have been considered, but are not persuasive. As pointed out, Shenderov (6565727) teaches for example the liquid is less polar (col. 4, ln. 12) and the examiner interprets zero dipole moment to be less polar relative to a polar liquid and therefore teaches the claimed limitation. Furthermore, the examiner interprets air,

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benzene or silicone oil to be well known in the art of electrowetting and liquid lenses and do not constitute undue experimentation for a person of ordinary skill in the art.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Berge et al. (6369654) in view of Shenderov (6565727).

Re claim 1, Berge et al. teaches for example in fig. 1, an electrowetting module comprising a cavity (12), containing at least a first body of a first fluid (11) and a second body of a second fluid (13), the two bodies being separated by an interface (A, B), and means (16, 17) for exerting a force on at least one of the bodies to change the position and/or shape of the interface (col. 4, In. 14-15), characterized in that at least one of the fluids comprises a liquid (11, 13), the liquid comprising a compound containing molecules in the liquid phase (col. 6, In. 52-55).

But, Berge et al. fails to explicitly teach molecules having a zero dipole moment.

However, Berge et al. teaches for example, varying the liquid constituents (col. 6. In. 52-55). Furthermore, the applicant relies on inherent chemical properties of

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compounds disclosed in Table 1 of the instant application. Within the same field of endeavor of electrowetting, Shenderov teaches for example, providing benzene (col. 4, ln. 14). Furthermore, the examiner interprets benzene to provide a zero dipole moment, since a zero dipole moment is an inherent chemical property of benzene, and therefore teaches the claimed limitation.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Berge et al. with the teachings of Shenderov in order to provide a rapid manipulation of small isolated volumes of fluids, as taught by Shenderov (col. 1, In. 14-15).

Re claim 2, Shenderov further teaches for example, the liquid comprises a compound containing symmetric molecules (benzene; col. 4, In. 14).

Re claim 3, Berge et al. further teaches for example in fig. 1, the compound is at least one of an organic compound and a silicon-based compound, being symmetrically substituted (col. 6, In. 52-55).

Re claims 4-8, supra claim 3.

But, Berge et al. in view of Shenderov fail to explicitly teach the claimed chemical compound structure limitations.

However, Berge et al. teaches for example, varying the liquid constituents (col. 6, In. 52-55). Furthermore, the applicant relies on inherent chemical properties of

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compounds disclosed in Table 1 of the instant application. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to vary the liquids to include chemical compound structure limitations, since the various chemicals are known equivalents in the art and the selection of any of these known equivalents would be within the level of ordinary skill in the art.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Berge et al. in view of Shenderov in order to reduce manufacturing costs based on availability of equivalent chemical compounds.

Re claim 9, Berge et al. further teaches for example in fig. 1, an optical component, the first and said second fluid body having different refractive indices, wherein the compound added to the liquid has a refractive index difference increasing effect (col. 7, In. 3-5).

Re claim 10, Berge et al. further teaches for example in fig. 1, the first fluid body is electrically conducting and/or polar, and the second fluid body is electrically non-conducting, the module being provided with means for exerting an electric force to change the position and/or shape of the meniscus-shaped interface (abstract).

Re claim 11, Berge et al. further teaches for example in fig. 1, the difference in refractive index is from 0.05 to 0.3; the refractive index of said second, non-conducting

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body, which comprises a liquid comprising a compound containing symmetric molecules and having zero dipole moment in the liquid phase, being larger than 1.4 (col. 7, In. 3-5).

Re claim 12, Berge et al. further teaches for example in fig. 1, said first and said second fluid bodies show a similar density (wherein the examiner interprets the density of 11 and 13 to be similar).

Re claim 13, supra claim 12. Berge et al. further teaches for example in fig. 1, the second fluid body comprises a liquid (13), comprising a compound containing molecules in the liquid phase (col. 6, In. 52-55).

But, Berge et al. fails to explicitly teach molecules having a zero dipole moment, and a density larger than 1.0 g/cm3.

However, Berge et al. teaches for example, varying the liquid constituents (col. 6, In. 52-55). Furthermore, the applicant relies on inherent chemical properties of compounds disclosed in Table 1 of the instant application. Within the same field of endeavor of electrowetting, Shenderov teaches for example, providing benzene (col. 4, In. 14). Furthermore, the examiner interprets benzene to provide a zero dipole moment and a density larger than 1.0 g/cm3, since a zero dipole moment and density are inherent chemical properties of benzene, and therefore teaches the claimed limitation.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Berge et al. with the teachings

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of Shenderov in order to provide a rapid manipulation of small isolated volumes of fluids, as taught by Shenderov (col. 1, In. 14-15).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph P. Martinez whose telephone number is 571-272-2335. The examiner can normally be reached on M-F 7:00 AM to 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Mack can be reached on 571-272-2333. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Joseph Martinez/ Primary Examiner AU 2873 3-10-09